

CLAIM AMENDMENTS AND STATUS

1. (currently amended) An aluminum alloy product having high strength with good toughness, containing by weight, 8.5-11.0% Zn, 1.8-2.4 % Mg, 1.8-2.6% Cu, 0.05-0.30% Sc and 0.03-0.5% Zr, at least one element from the group Zr, V, or Hf not exceeding about 0.5%, the balance substantially aluminum and incidental impurities.
2. (original) The alloy product of claim 1, wherein said alloy contains about 0.03-0.25% Zr.
3. (original) The alloy product of claim 1, wherein said alloy includes 8.8-10.2% Zn, 1.8-2.2% Mg and 2.0-2.4% Cu.
4. (original) The alloy product of claim 3, wherein said alloy includes 0.05-0.10% Sc.
5. (original) The alloy product of claim 4, wherein said alloy includes 0.06% Sc.
6. (original) The alloy product of claim 1, wherein said alloy includes 9.0-10.0% Zn, 1.8-2.2% Mg, 2.0-2.4% Cu and 0.05-0.10% Sc.
7. (original) The alloy product of claim 1, wherein said alloy includes 0.06% Sc.
8. (original) The alloy product of claim 1, wherein said alloy includes about 0.03-0.10% Si and 0.03-0.12% Fe.

9. (original) The aluminum alloy product of claim 1, wherein said product is selected from the group including sporting goods such as baseball and soft ball bats, golf shafts, lacrosse sticks, tennis rackets, and arrows; aerospace components such as wing plates, bulkheads, fuselage stringers, and structural extrusions and forgings; and ordnance parts such as sabots and missile launchers.

10-22. (cancelled)

23. (currently amended) An aluminum alloy product having high strength with good toughness, containing by weight, 9.0-11.0% Zn, 1.8-2.4 % Mg, 2.2-2.6% Cu, with a maximum of 4.7% Mg plus Cu, and at least one element from the group Zr, V, or Hf not exceeding about 0.5%, the balance substantially aluminum and incidental impurities.

24. (original) The alloy product of claim 23, wherein said alloy contains about 0.03-0.25% Zr.

25. (original) The alloy product of claim 23, wherein said alloy includes 9.0-10.2% Zn, 1.8-2.2% Mg and 2.2-2.4% Cu.

26. (original) The alloy product of claim 25, wherein said alloy includes 0.05-0.10% Sc.

27. (original) The alloy product of claim 26, wherein said alloy includes 0.06% Sc.

28. (original) The alloy product of claim 23, wherein said alloy includes 9.0-10.0% Zn, 1.8-2.2% Mg, 2.2-2.4% Cu and 0.05-0.10% Sc.

29. (original) The alloy product of claim 23, wherein said alloy includes 0.06% Sc.

30. (original) The alloy product of claim 23, wherein said alloy includes about 0.03-0.10% Si and 0.03-0.12% Fe.

31. (original) The aluminum alloy product of claim 23, wherein said product is selected from the group including sporting goods such as baseball and soft ball bats, golf shafts, lacrosse sticks, tennis rackets, and arrows; aerospace components such as wing plates, bulkheads, fuselage stringers, and structural extrusions and forgings; and ordnance parts such as sabots and missile launchers.

32. (new) The alloy product of claim 1, wherein the total amount of Mg plus Cu does not exceed 4.7%.

33. (new) The alloy product of claim 23, wherein said alloy includes 0.03-0.25% Zr and 0.05-0.10% Sc.

34. (new) The alloy product of claim 33, wherein said alloy includes 0.03-0.12% Zr and 0.05-0.06% Sc.

35. (new) An aluminum alloy product having high strength with good toughness, containing by weight, 8.5-11.0% Zn, 1.8-2.4 % Mg, 1.8-2.6% Cu, with a maximum of 4.7% Mg plus Cu, 0.05-0.30% Sc and at least one element from the group Zr, V, or Hf not exceeding about 0.5%, the balance substantially aluminum and incidental impurities.

36. (new) The alloy product of claim 35, wherein said alloy contains about 0.03-0.25% Zr.

37. (new) The alloy product of claim 35, wherein said alloy includes 8.8-10.2% Zn, 1.8-2.2% Mg and 2.0-2.4% Cu.

38. (new) The alloy product of claim 37, wherein said alloy includes 0.05-0.10% Sc.

39. (new) The alloy product of claim 38, wherein said alloy includes 0.06% Sc.

40. (new) The alloy product of claim 35, wherein said alloy includes 9.0-10.0% Zn, 1.8-2.2% Mg, 2.0-2.4% Cu and 0.05-0.10% Sc.

41. (new) The alloy product of claim 35, wherein said alloy includes 0.06% Sc.

42. (new) The alloy product of claim 35, wherein said alloy includes about 0.03-0.10% Si and 0.03-0.12% Fe.

43. (new) The aluminum alloy product of claim 35, wherein said product is selected from the group including sporting goods such as baseball and soft ball bats, golf shafts, lacrosse sticks, tennis rackets, and arrows; aerospace components such as wing plates, bulkheads, fuselage stringers, and structural extrusions and forgings; and ordnance parts such as sabots and missile launchers.

44. (new) An aluminum alloy product having high strength with good toughness, containing by weight, 9.0-11.0% Zn, 1.8-2.4 % Mg, 2.2-2.6% Cu, 0.03-0.10% Si, 0.03-0.12% Fe, and at least one element from the group Zr, V, or Hf not exceeding about 0.5%, the balance substantially aluminum and incidental impurities.

45. (new) The alloy product of claim 44, wherein said alloy contains about 0.03-0.25% Zr.

46. (new) The alloy product of claim 44, wherein said alloy includes 9.0-10.2% Zn, 1.8-2.2% Mg and 2.2-2.4% Cu.

47. (new) The alloy product of claim 46, wherein said alloy includes 0.05-0.10% Sc.

48. (new) The alloy product of claim 47, wherein said alloy includes 0.06% Sc.

49. (new) The alloy product of claim 44, wherein said alloy includes 9.0-10.0% Zn, 1.8-2.2% Mg, 2.2-2.4% Cu and 0.05-0.10% Sc.

50. (new) The alloy product of claim 44, wherein said alloy includes 0.06% Sc.

51. (new) The aluminum alloy product of claim 44, wherein said product is selected from the group including sporting goods such as baseball and soft ball bats, golf shafts, lacrosse sticks, tennis rackets, and arrows; aerospace components such as wing plates, bulkheads, fuselage stringers, and structural extrusions and forgings; and ordnance parts such as sabots and missile launchers.